

FIG.1

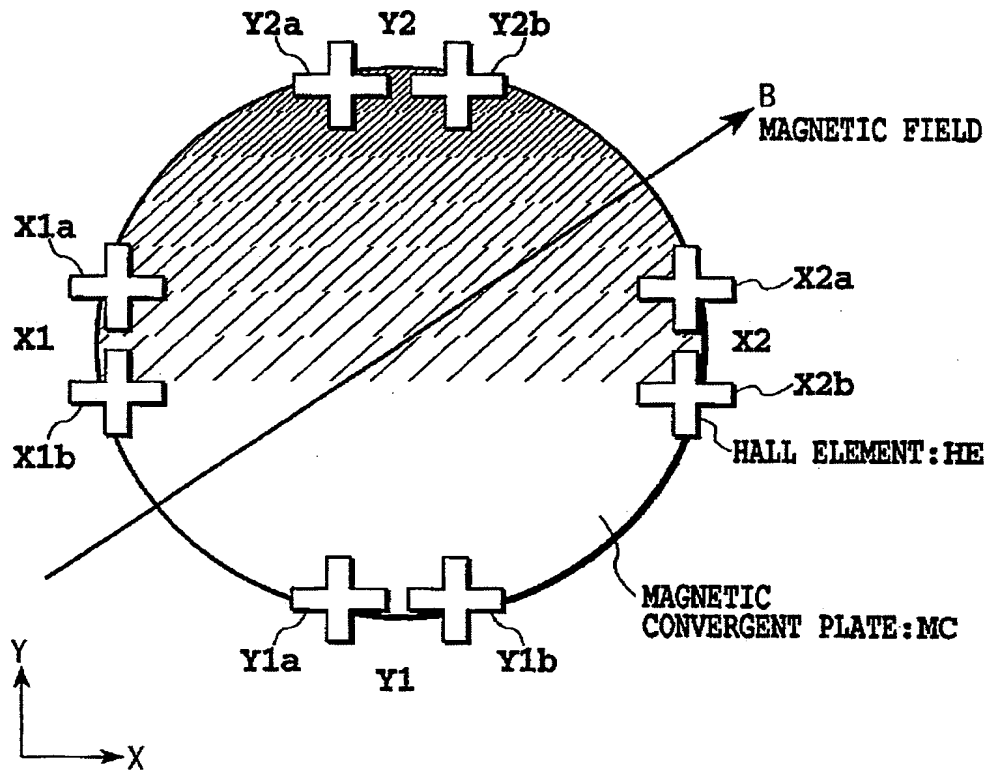


FIG. 2

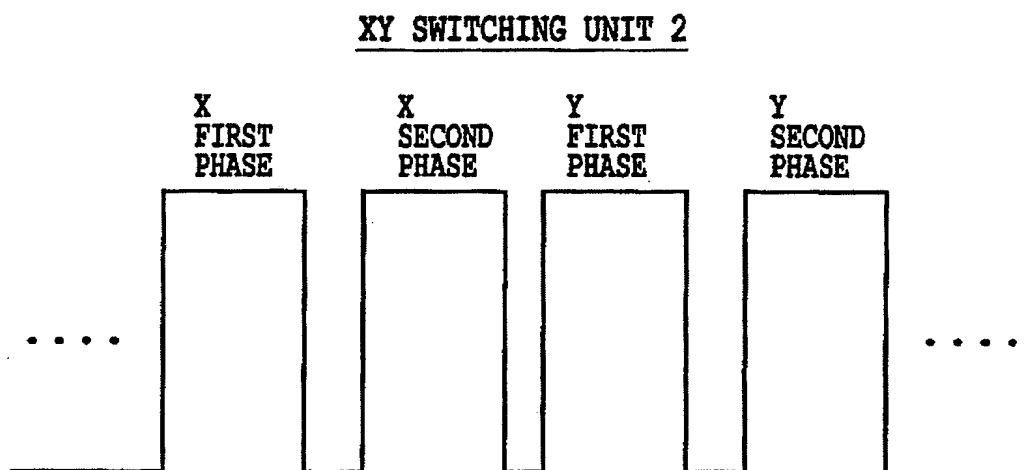


FIG. 3

3/15

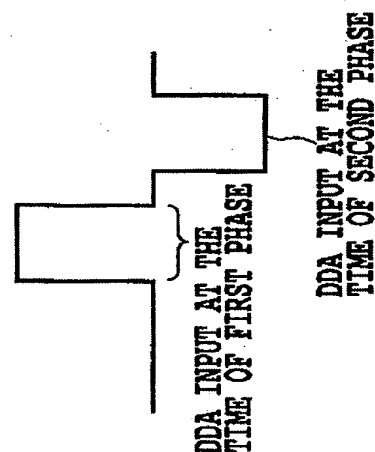
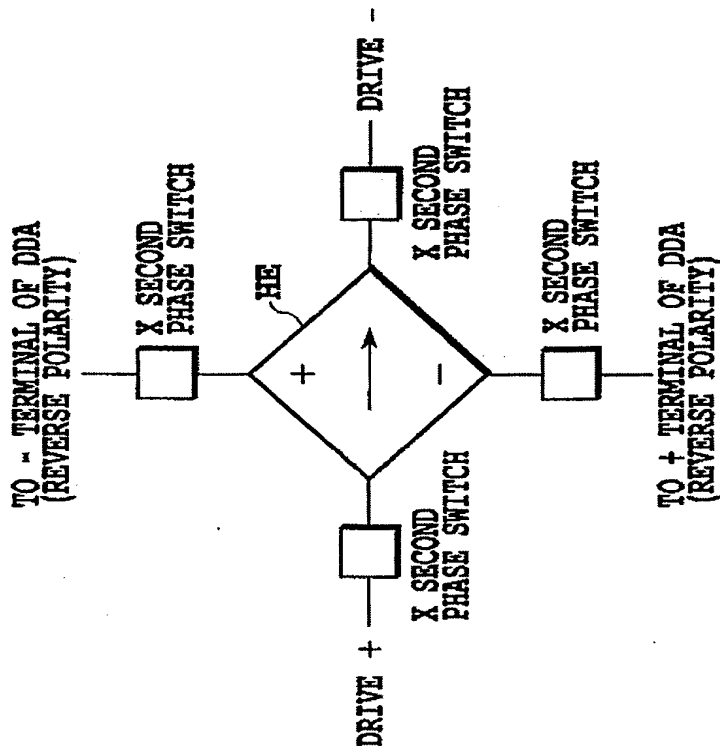


FIG. 4A

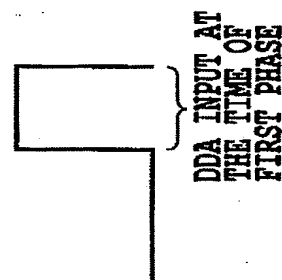
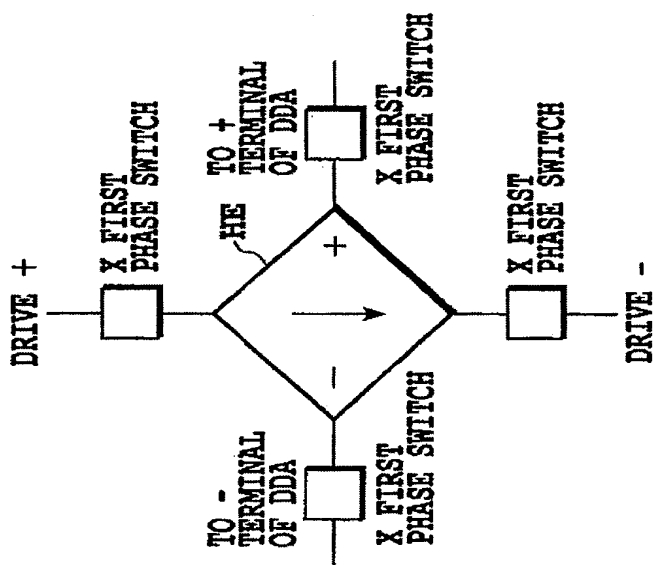


FIG. 4B

4/15

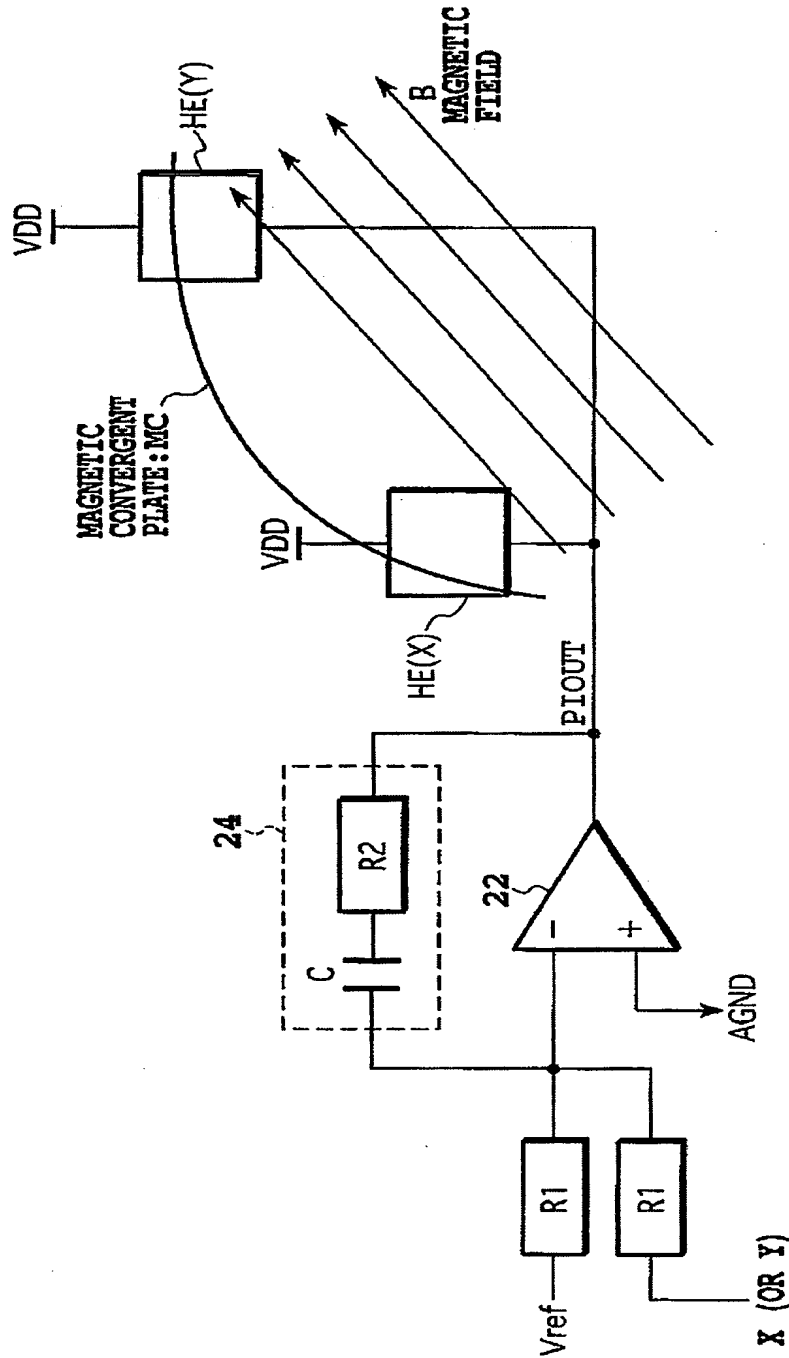


FIG.5

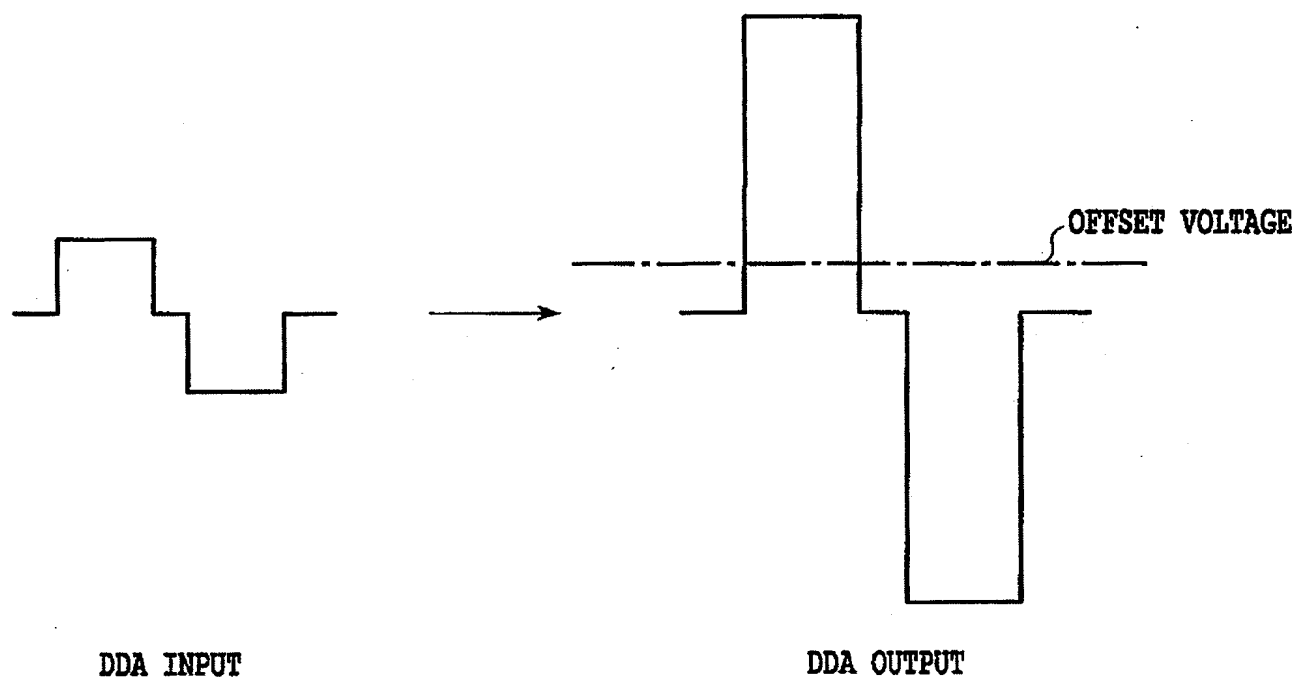


FIG.6

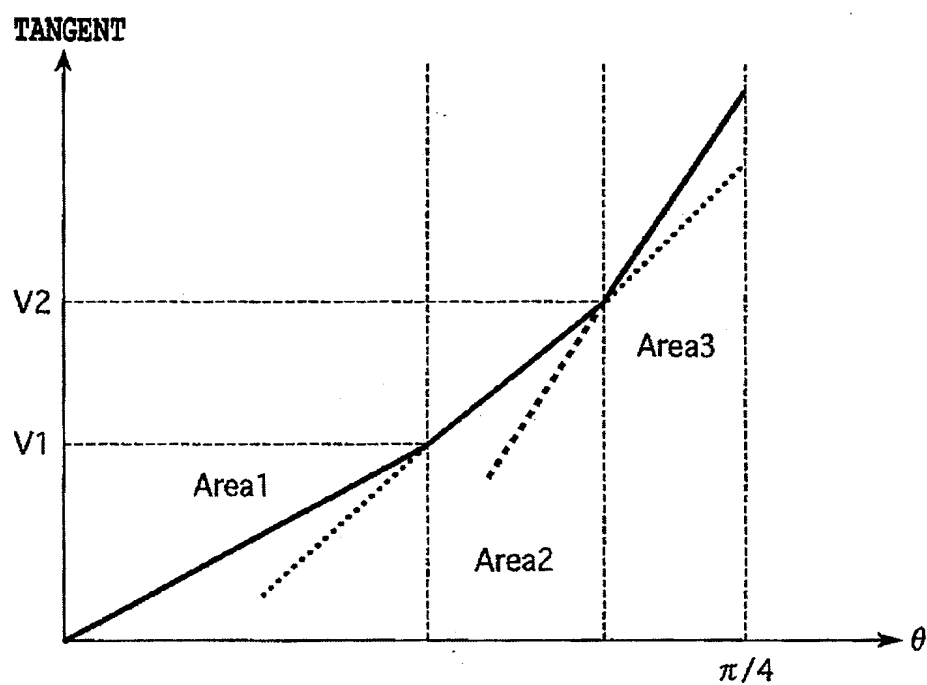


FIG.12

6/15

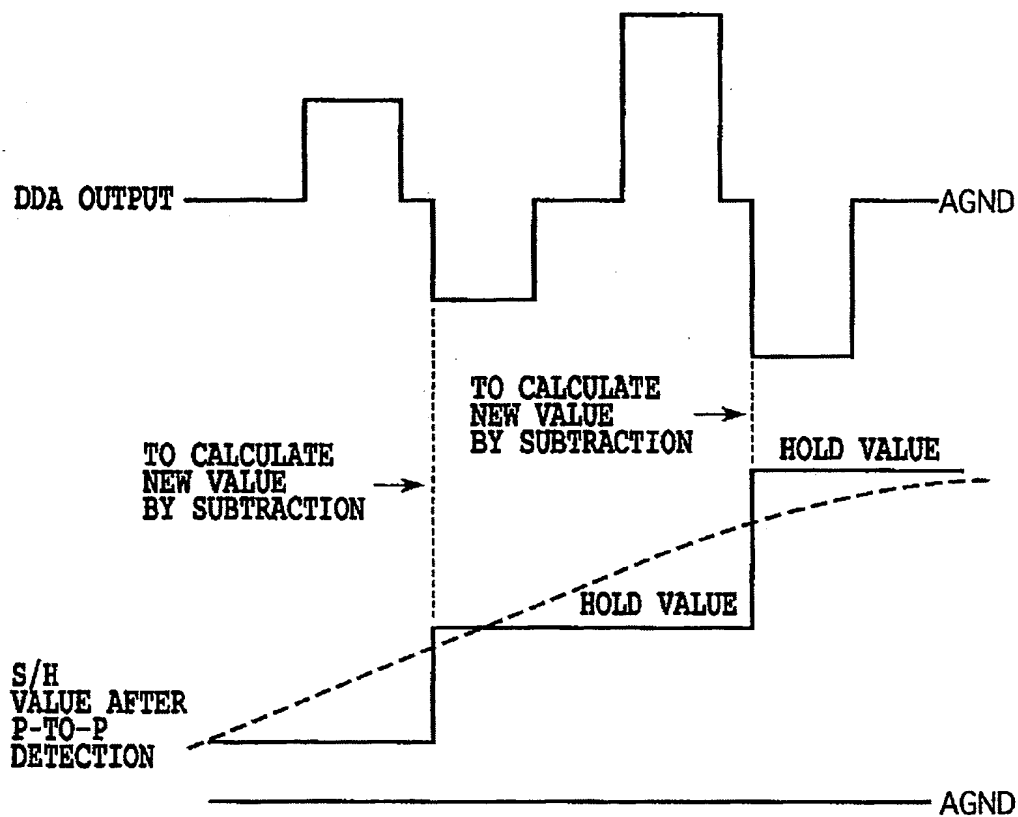


FIG.7

DETECTION THEORY FOR TANGENT VALUE

There are two components (a+d) and (a-d)
 If $Y(a+d) + Y(a-d)$ is controlled to be constant,

For Y component

$$V_{ref} = K I B \{ \cos(a+d) + \cos(a-d) \}$$

$$V_{ref} = 2KI B \cos(a) \cos(d)$$

$$IB = V_{ref} / \cos(a) \cos(d) 2K$$

For X component

$$Out = X(a+d) + X(a-d) = K I B \{ \sin(a+d) + \sin(a-d) \}$$

$$= 2KI B \sin(a) \cos(d)$$

$$= V_{ref} \tan(a)$$

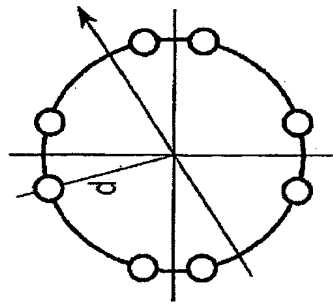


FIG.8

8/15

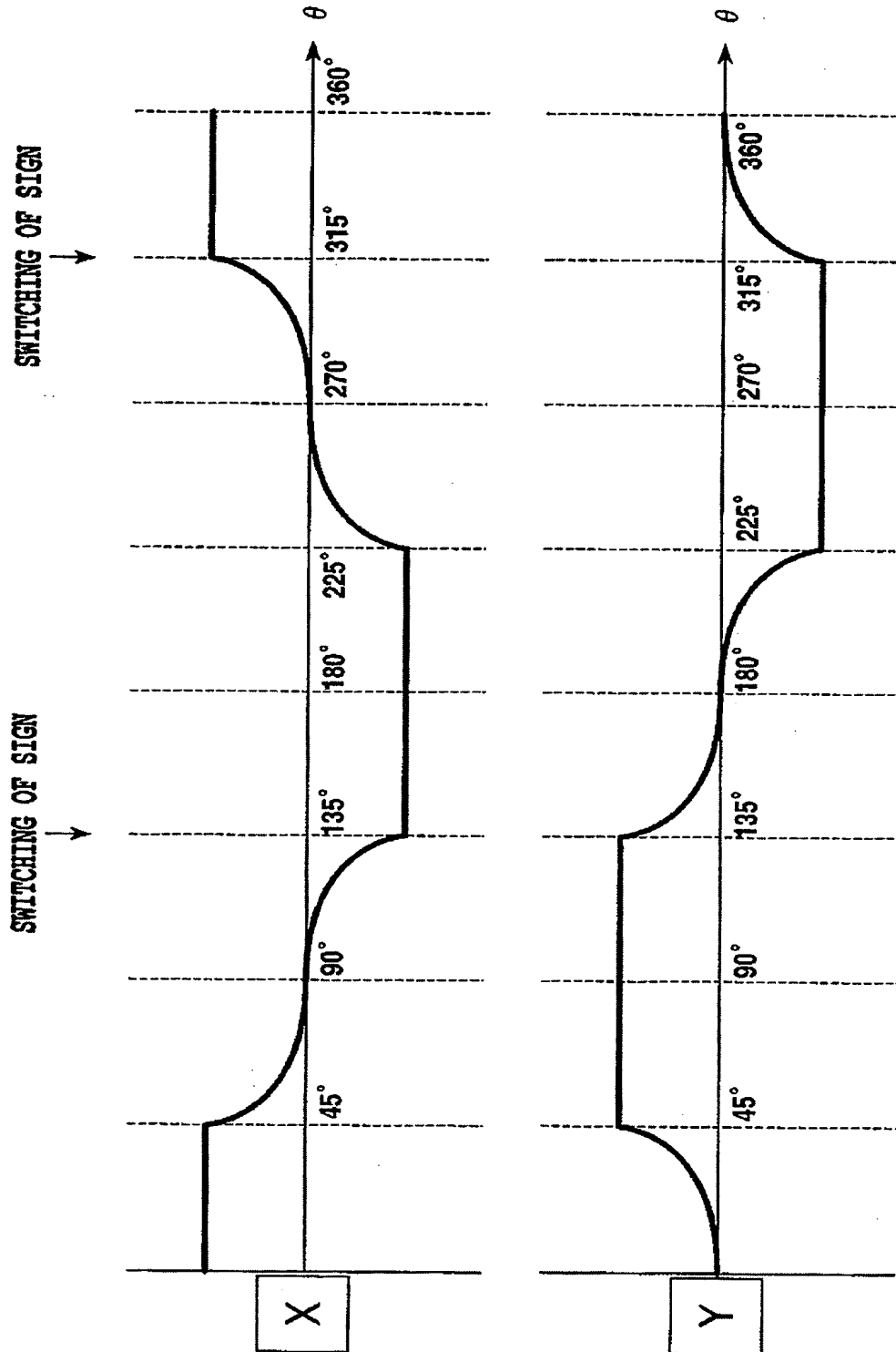
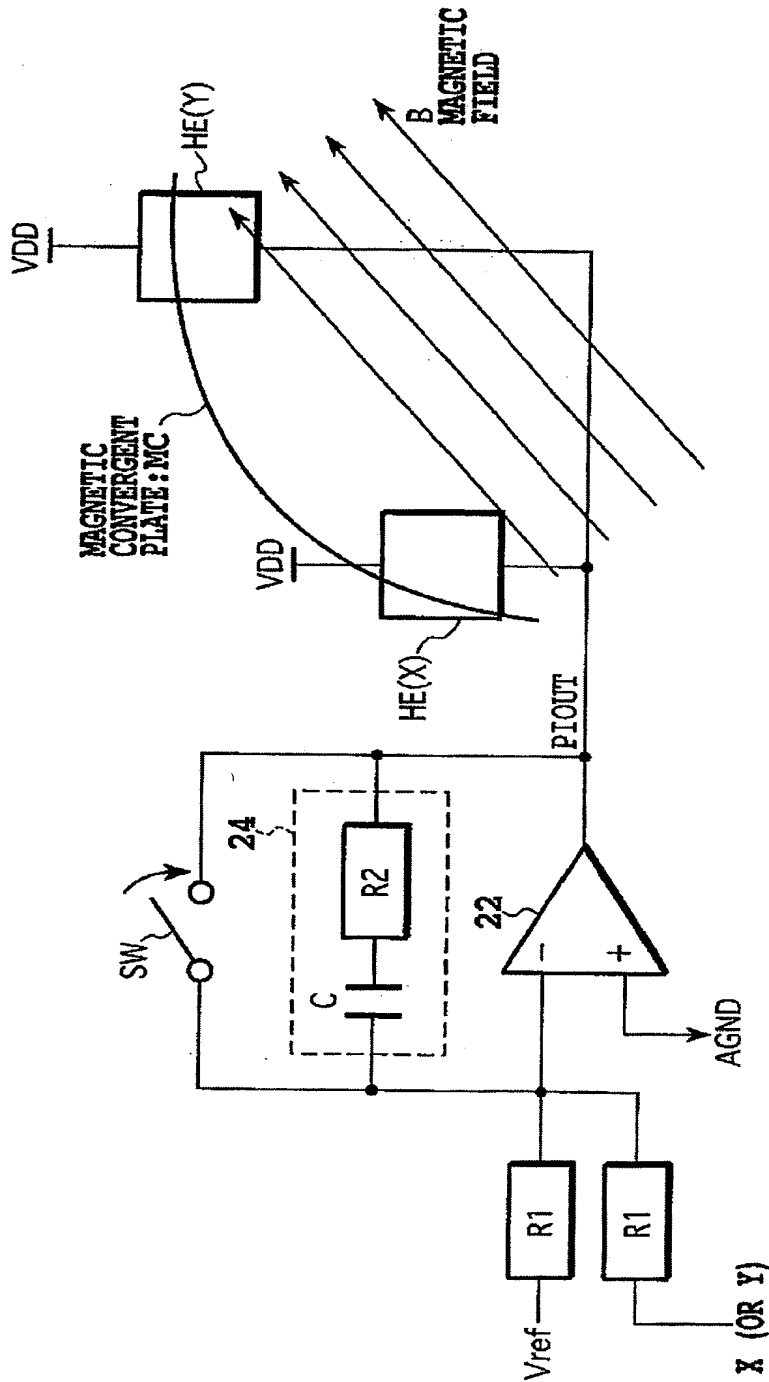


FIG. 9

9/15



ANGLE AREA JUDGMENT AFTER POWER-ON

FIG.10

10/15

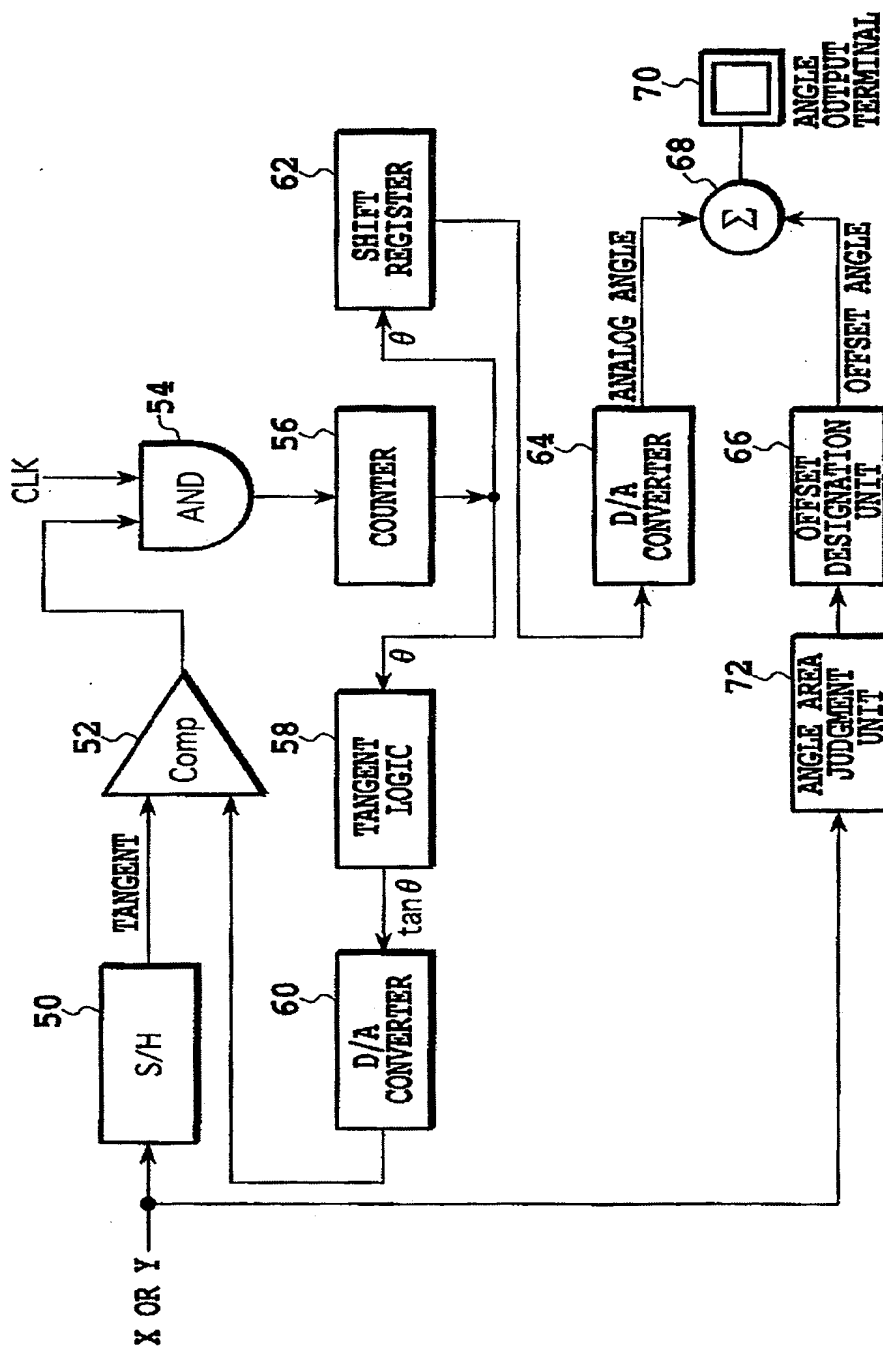


FIG.11

11/15

FIG.13A

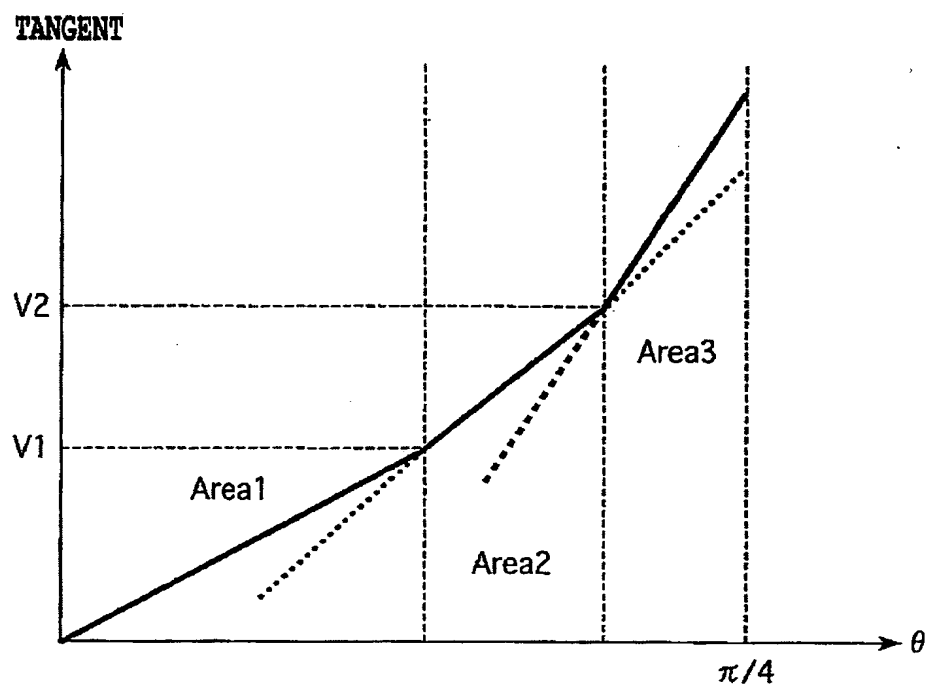
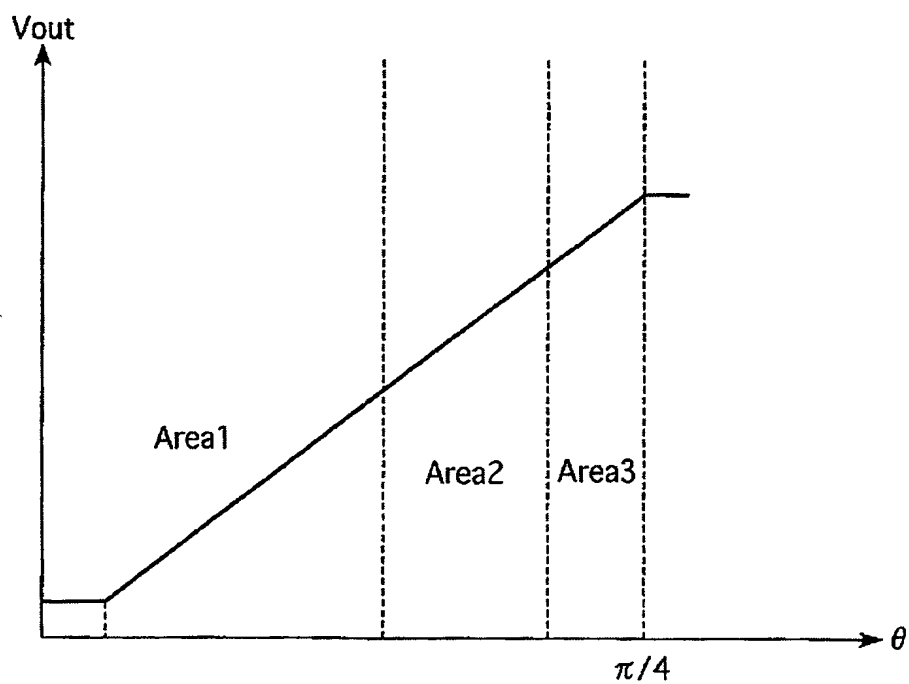


FIG.13B



12/15

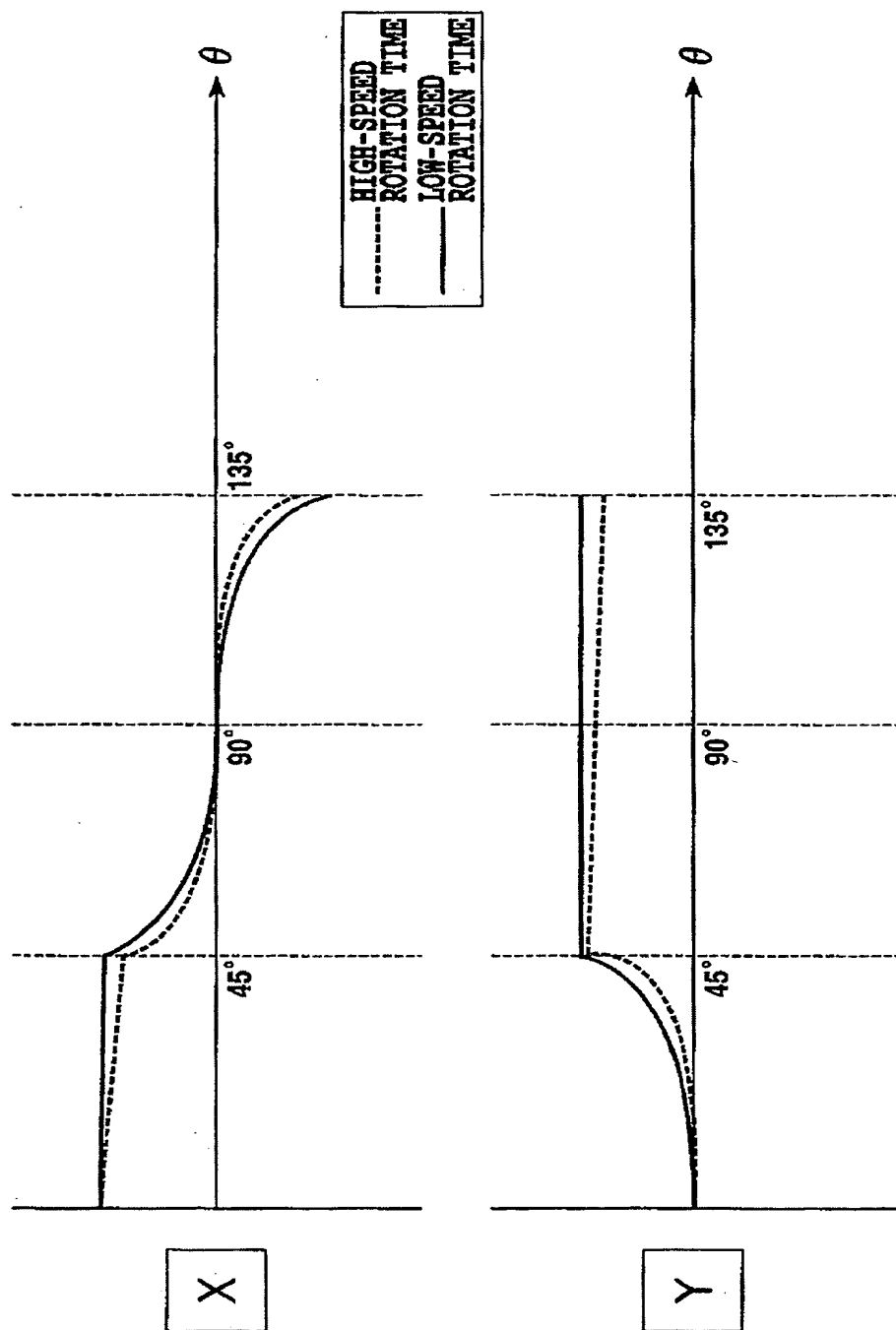


FIG.14

13/15

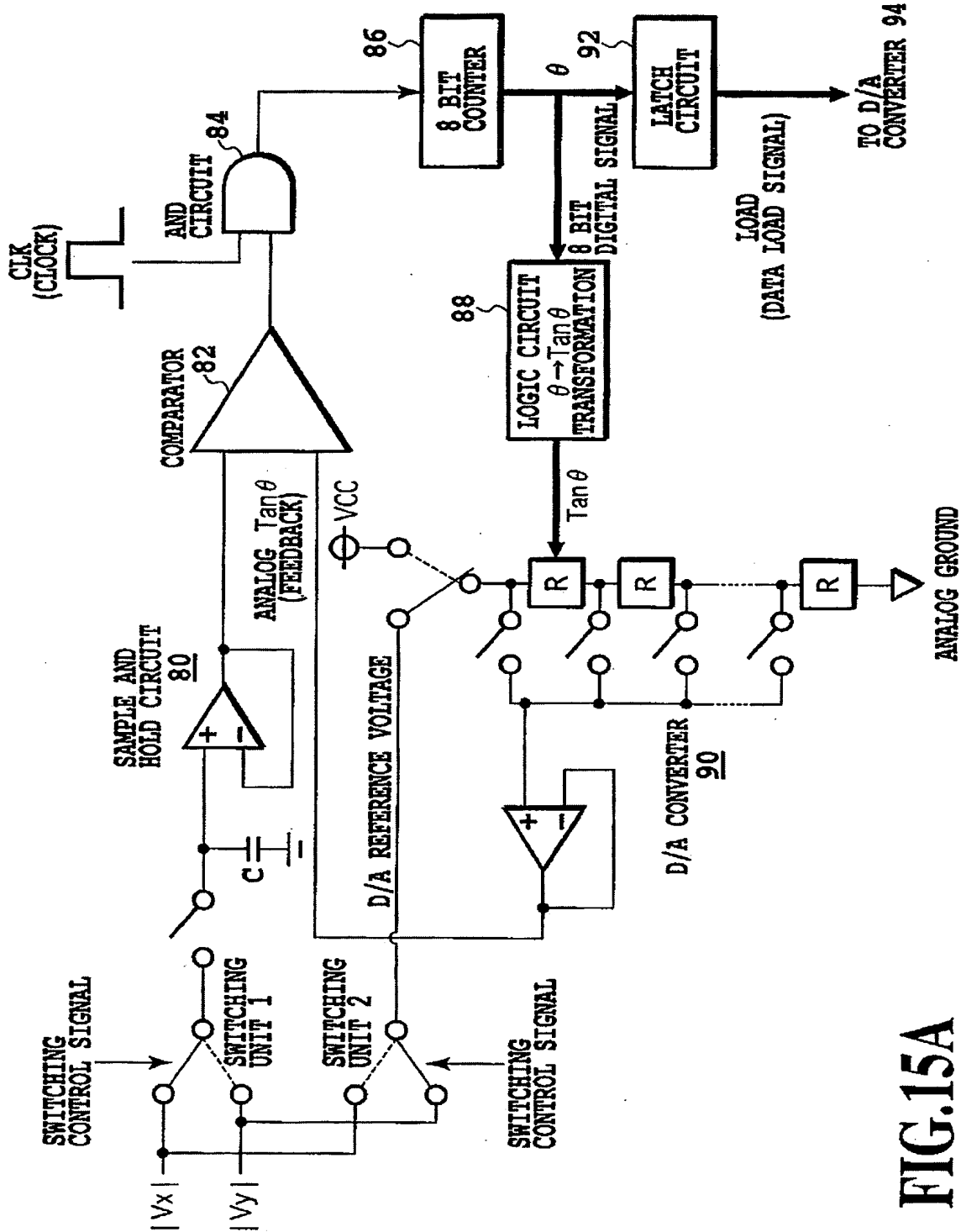


FIG.15A

14/15

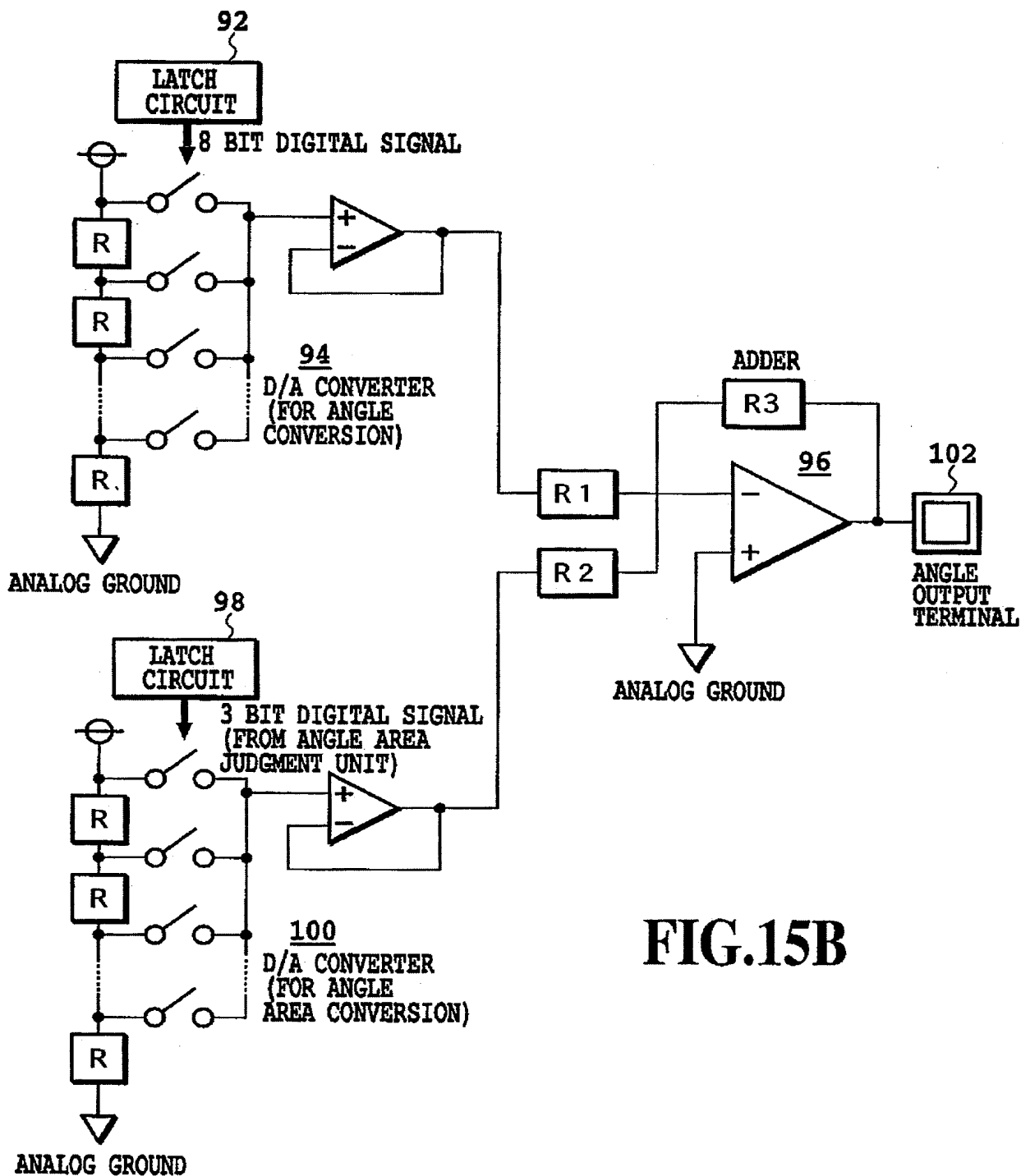


FIG.15B

15/15

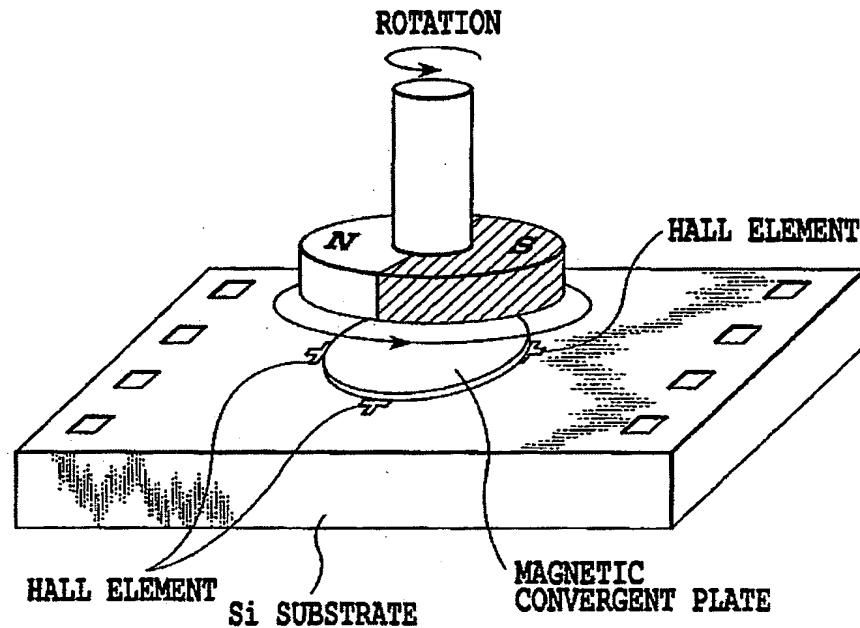


FIG. 16A

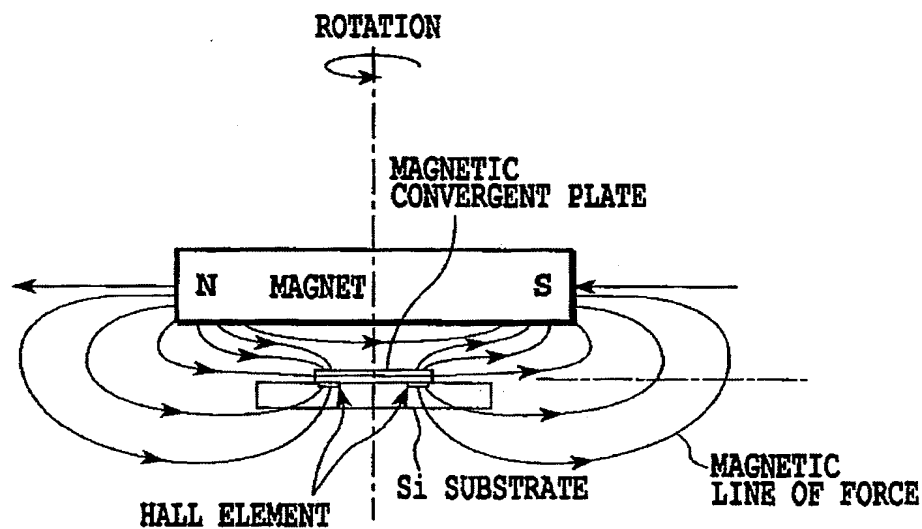


FIG. 16B